

ABSTRACT

The invention relates, in case that a thermally tempered glass is produced by allowing an impact jet flow from quenching nozzles to blow against the glass, to a process for producing a curved shape, thermally tempered glass, characterized in that a quenching is conducted by simultaneously using at least two types of quenching nozzles having different exit diameters of the quenching nozzles. Furthermore, the invention relates to a curved, thermally tempered glass produced by this process and to an apparatus for producing the thermally tempered glass. In the invention, it is preferable that a exit diameter d is from $\phi 1\text{mm}$ to $\phi 8\text{mm}$, a distance Z between the nozzle and the glass is 1 to 80mm, a chamber pressure P is in a range of 0.1 to 0.8MPa, and a heat flux difference is 150kW/m^2 or less. Furthermore, in the thermally tempered glass, it is preferable that a difference of surface compressive stress values within a glass surface is 20MPa or less.